

Compositae-Eupatorieae of Salvador and Guatemala

Coll. by P. C. Standley

Det. by B. L. Robinson

- 19122 *Eupatorium collinum* DC.
 19135 " *odoratum* L.
 19161 " " "
 19203 " *quadrangulare* DC.
 19220 *Ageratum conyzoides* L.
 19292 *Brickellia diffusa* (Vahl) Gray
 19300 *Eupatorium Sinclairi* Benth.
 19306 " *pycnocephalum* Less.
 19568 " " "
 19604 " *collinum* DC.
 19682 *Brickellia paniculata* (Mill.) Robinson
 19683 *Stevia*
 19799 *Eupatorium Sinclairi* Benth.
 19800 *Brickellia diffusa* (Vahl) Gray
 19816 *Eupatorium odoratum* L.
 20103 " *collinum* DC.
 20145 " *pycnocephalum* Less.
 20160 " *leucocephalum* Benth.
 20293 " *odoratum* L.
 20361 *Ageratum rugosum* Coult.
 20365 *Eupatorium collinum* DC.
 20384 *Brickellia paniculata* (Mill.) Robinson
 20450 *Eupatorium pycnocephalum* Less.
 20567 *Mikania micrantha* HBK.
 20603 *Brickellia paniculata* (Mill.) Robinson
 20631 *Stevia*
 20636 *Eupatorium Aschenbornianum* Schauer
 20667 " *odoratum* L.
 20706 " " "
 20959 *Brickellia diffusa* (Vahl) Gray
 21122 *Mikania cordifolia* (L.f.) Willd.
 21129 *Eupatorium morifolium* Mill.
 21167 " " "
 21213 " *pycnocephalum* Less.
 21400 *Brickellia diffusa* (Vahl) Gray
 21420 *Eupatorium odoratum* L.
 21457 *Mikania micrantha* HBK.
 21501 *Eupatorium Aschenbornianum* Schauer
 21550 " *phoenicolepis* Robinson,
 var. *guatemalense* Robinson
 21654 *Brickellia paniculata* (Mill.) Robinson
 21793 *Ageratum conyzoides* L.
 21798 *Eupatorium solidaginoides* HBK.
 21809 " *Sinclairi* Benth.
 21887 " *morifolium* Mill.
 21909 " *odoratum* L.
 21929 *Mikania cordifolia* (L.f.) Willd.
 22168 " " "
 22176 *Eupatorium pycnocephalum* Less.
 22316 " *odoratum* L.

- 22517 Eupatorium morifolium Mill.
 22518 " pycnocephalum Less.
 22522 Brickellia paniculata (Mill.) Robinson
 22611 Ageratum rugosum Coult.
 22612 Eupatorium daleoides (DC.) Hensl.
 22702 " Aschenbornianum Schauer
 22726 Brickellia pacayensis Coult.
 22771 " " "
 22777 Ageratum rugosum Coult.
 22813 Eupatorium Aschenbornianum Schauer
 22871 Ageratum conyzoides L.
 22908 Eupatorium pycnocephaloides Robinson
 22912 " Schultzii Schnittspahn
 22925 " pycnocephalum Less.
 22931 Brickellia adenocarpa Robinson
 23004 Eupatorium collinum DC.
 23053 " Aschenbornianum Schauer
 23065 " Schultzii Schnittspahn
 23104 " morifolium Mill.
 23147 " odoratum L.
 23171 Mikania cordifolia (L.f.) Willd.
 23431 Ageratum conyzoides L.
 23482 Eupatorium Sinclairi Benth.
 23726 " pycnocephalum Less.
 23835 " morifolium Mill.
 23950 " Oerstedianum Benth.
 24050 Ageratum conyzoides L.
 24427 " " "
 24490 Eupatorium celtidifolium Lam.,
 var. hirtellum Robinson ? (too young for certainty)
 24499 Eupatorium Oerstedianum Benth.
 24503 " odoratum L.
 24531 " Billbergianum Beurl.
 24571 " pycnocephalum Less.
 24799 " odoratum L.

BORAGINACEAE of Guatemala collected by P.C. Standley
received at the Arnold Arboretum Oct. 1941, determined by I.M. Johnston

STANDLEY

80098	<i>Cynoglossum amabile</i> Stapf & Drumm.
77365	<i>Lithospermum mediale</i> Johnst.
76426	<i>Heliotropium rufipilum</i> (Benth.) Jtn.
77992	" "
78484	" "
73735	<i>Heliotropium macrostachyum</i> (DC.) Hemsl.
81375	<i>Heliotropium fallax</i> Johnst.
82884	" "
73770	<i>Heliotropium fruticosum</i> L.
74074	" "
88054	<i>Heliotropium procumbens</i> Miller
74472	<i>Heliotropium oaxacanum</i> DC.
74862	" "
74976	" "
87288	<i>Tournefortia hirsutissima</i> L. forma
87749	" " "
91841	" " "
87971	<i>Tournefortia bicolor</i> Sw.
76209	<i>Tournefortia volubilis</i> L.
74821	" "
86845	<i>Tournefortia syringaefolia</i> Vahl
75034	<i>Tournefortia trichocalycina</i> DC.
80270	<i>Tournefortia acutiflora</i> Mart. & Gal.
83532	" "
78646	<i>Tournefortia angustiflora</i> R.&P.
78730	" "
79028	" "
79468	" "
78904	<i>Cordia ferruginea</i> (Lam.) R.&S.
90543	" "
78112	" "
87852	" "
89999	" "
73688	<i>Cordia curassavica</i> (Jacq.) R.&S.
73887	" "
74321	" "
74759	" "
76588	" "
76595	<i>Cordia quercetorum</i> Johnst.
75263	<i>Cordia macrostachya</i> (Jacq.) R.&S.
79442	<i>Cordia</i> sp. sterile
87573	<i>Cordia</i> sp. sterile probably <i>C. erio stigma</i> Pittier
75183	<i>Cordia dentata</i> Poir.
74572	" "
73627	<i>Cordia globosa</i> (Jacq.) HBK.
73867	" "
73964	" " 73964
74084	" "
73704	<i>Cordia cana</i> Mart. & Gal.
73697	<i>Cordia Pringlei</i> Robins.
73784	" "
74448	" "
74969	" "
79404	<i>Cordia</i> sp.

Let. pen
Jan 21, 1942

EUPATORIEAE OF COSTA RICA

(Collected by Mr. P. C. Standley, determined at Gray Herbarium by B. L. Robinson, Oct. 1925.)

Standley	33417	<i>Eupatorium</i>	<i>sexangulare</i> (Klatt) Robinson.
"	33458	"	<i>tryptichum</i> Robinson, n. sp.
"	33543	<i>Mikania</i>	<i>Standleyi</i> Robinson.
"	33808	"	" "
"	33848	"	<i>hylibates</i> Robinson, n. sp.
"	34677	<i>Eupatorium</i>	<i>peasanum</i> Robinson, n. sp.
"	34700	"	<i>prionophyllum</i> Robinson.
"	35300	"	<i>subcordatum</i> Benth.
"	35367	"	" "
"	35429	"	<i>plectranthifolium</i> Benth.
"	37816	"	<i>Standleyi</i> Robinson.
"	37982	<i>Mikania</i>	<i>Standleyi</i> Robinson.
"	38509	"	<i>nubigena</i> Robinson, n. sp.
"	39155	"	<i>costaricensis</i> Robinson, n. sp.
"	39288	<i>Eupatorium</i>	<i>Standleyi</i> Robinson, n. sp.
"	39427	<i>Mikania</i>	<i>Standleyi</i> Robinson.
"	39482	"	" "
"	39630	"	<i>Holwayana</i> Robinson.
"	40207	<i>Eupatorium</i>	<i>elatum</i> Steetz.

Additional determinations of Eupatorieae recently received at the Gray Herbarium from the U. S. National Herbarium in continuation of exchange.

Standley	34065	<i>Eupatorium</i>	<i>ligustrinum</i> DC.
"	35940	"	<i>Sideritidis</i> Benth.
E. W. Nelson	6185	<i>Eupatorium</i>	<i>Greggii</i> Gray.
Carleton	593	<i>Eupatorium</i>	<i>sexangulare</i> (Klatt) Robinson.
Bro. Julio	27	"	<i>Sternbergianum</i> DC.
Pittier	5389	<i>Alomia</i>	<i>chiriquensis</i> Robinson.
Calderón	1991	<i>Eupatorium</i>	<i>hebebotryum</i> (DC.) Hemsl.

Eupatorieae of Costa Rica coll. by P. C. Standley & assistants 1925-26

Det. by B. L. Robinson

- ✓ 41497 Eupatorium (affin. *E. pycnocephalum* Less.)
- ✓ 41627 " (§ *Eximb.*) [n. sp.?]
- ✓ 41792 " *collinum* DC.
- 41846 " (§ *Eximb.*) (cf. *E. miserum* Rob.)
- ✓ 41882 " *microstemon* Cass.
- ✓ 41883 " *daleoides* (DC.) Hemsl. ?
- ✓ 41896 " (§ *Eximb.*)
- 41910 " (§ *Subimb.*)
- ✓ 42181 " (§ ") n. sp. ?
- ✓ 42217 " *ligustrinum* DC
- ✓ 42233 " (§ *Eximb.*) (n. sp. ? = no. 41627)
- ✓ 42376 " *hymenophyllum* Klatt
- ✓ 42460 " *daleoides* (DC.) Hemsl. ?
- ✓ 42467 *Stevia*
- ✓ 42556 Eupatorium (affin. *E. ligustrinum* DC.)
- ✓ 42557 " (§ *Eximb.*)
- ✓ 42562 " *plectranthifolium* Benth.
- 42618 *Mikania* (§ *Corymb.*)
- ✓ 42727 Eupatorium (§ *Subimb.*) n. sp. F (= 42181)
- 42814 *Mikania* (§ *Thyrsig.*) (U.S., fragm. Gr.)
- ✓ 42867 Eupatorium *ligustrinum* DC.
- ✓ 42871 " (§ *Eximb.*)
- ✓ 42888 " " (affin. *E. ligustrinum* DC.)
- ✓ 42898 " (§ *Subimb.*) (near *E. daleoides*)
- ✓ 42961 " *hymenophyllum* Klatt
- ✓ 42965 " *microstemon* Cass.
- ✓ 43017 " *ligustrinum* DC.
- 43463 *Mikania* (§ *Thyrsig.*)
- ✓ 43422 *Stevia*
- 43487 *Mikania* (§ *Spicig.*)
- ✓ 43497 Euaptorium (§ *Eximb.*)
- 43502 *Hemibaccharis irazuensis* Blake
- ✓ 43587 Euaptorium (§ *Eximb.*)
- 43809 *Diplostephium costaricense* Blake
- ✓ 43884 Euaptorium (§ *Eximb.*)
- ✓ 43947 " (" ")
- ✓ 43947a " " "
- 43977 *Baccharis*
- ✓ 44034 *Stevia*
- ✓ 44039 Eupatorium (§ *Subimb.*)
- ✓ 44111 " " " [n. sp.?]
- ✓ 44140 *Alomia microcarpa* (Benth.) Robinson
- ✓ 44225 Eupatorium *Sinclairi* Benth.
- ✓ 44227 *Brickellia diffusa* (Vahl) Gray
- ✓ 44418 *Mikania micrantha* HBK.
- ✓ 44459 Eupatorium (= *E. microstemon* Cass.?)
- ✓ 44484 " *macrophyllum* L.
- 44486 *Mikania* (§ *Corymb.*) [n. sp.?]
- ✓ 44492 " *cordifolia* (L. f.) Willd.
- ✓ 44624 " *Houstoniana* (L.) Robinson
- ✓ 44630 Eupatorium *hymenophyllum* Klatt
- 44632 *Mikania* (§ *Cormb.*)
- ✓ 44892 " *cordifolia* (L.f.) Willd.

- ✓ 45050 *Mikania micrantha* HBK.
 ✓ 45232 " " " U.S.
 ✓ 45457 " (§ *Globosae*?)
 ✓ 45574 " (affin. *M. punctata* Klatt)
 ✓ 45699 *Eupatorium collinum* DC.
 ✓ 45707 " (§ *Subimb.*)
 ✓ 45780 " *Pittieri* Klatt
 ✓ 45788 *Mikania* (§ *Rocem.*)
 ✓ 45936a *Eupatorium araliaefolium* Less. U.S.
 ✓ 46120 " (§ *Subimb.*) [n. sp. ?]
 ✓ 46185 " *hymenophyllum* Klatt
 ✓ 46370 " *araliaefolium* Less.
 ✓ 46607 *Mikania* (affin. *M. Houstoniana* (L.) Robinson)
 ✓ 46612 " *punctata* Klatt
 ✓ 46614 " *micrantha* HBK.
 46714 *Eupatorium laevigatum* Lam.
 ✓ 46745 " *Pittieri* Klatt
 46831 *Mikania micrantha* HBK.
 ✓ 46913 *Eupatorium elatum* Steetz
 ✓ 46914 " *vitalbae* DC.
 ✓ 47129 " (§ *Eximb.*)
 ✓ 47142 " *hymenophyllum* Klatt
 47723 " *anisochromum* Klatt
 47791 *Mikania*
 47835 *Eupatorium Pittieri* Klatt
 ✓ 47883 " " "
 ✓ 47909 " *pycnocephalum* Less.
 ✓ 47914 " (§ *Eximb.*) (= *E. Aschenbornianum* Schauer?)
 47955 " (§ *Subimb.*) (affin. *E. Standleyi* Rob.)
 ✓ 48145 " " " [= *E. daleoides* (DC.) Hemsl.?)
 ✓ 48419 *Mikania micrantha* HBK.
 ✓ 48671 " *punctata* Klatt
 ✓ 49030 *Eupatorium fistulosum* Robinson
 ✓ 49062 " *eximium* Robinson
 ✓ 49320 " *sideritidis* Benth.
 ✓ 49341 " *pycnocephalum* Less.
 ✓ 49437 *Piqueria trinervia* Cav.
 ✓ 49470 *Brickellia argyrolepis* Robinson
 ✓ 49471 *Eupatorium ligustrinum* DC.
 204 ✓ 49493 " *Aschenbornianum* Schauer
 ✓ 49543 " *daleoides* (DC.) Hemsl.
 49801 " (§ *Subimb.*) (= *E. pycnocephalum* Less.?)
 ✓ 49988 " *eximium* Robinson
 50067 " *Standleyi* Robinson, var.
 ✓ 50078 " (§ *Eximb.*) (affin. *E. Aschenbornianum* Schauer)
 50089 " (§ *Subimb.*) (= *E. pycnocephalum* Less.?)
 50093 *Mikania* (§ *Cormb.*)
 ✓ 50692 *Eupatorium pycnocephalum* Less.
 50873 *Mikania* (§ *Thyrsig.*)
 50898 "
 ✓ 50909 *Eupatorium vitalbae* DC.
 ✓ 50917 " *daleoides* (DC.) Hemsl.
 50935 *Mikania bogotensis* Benth.
 ✓ 50937 *Mikania* ?
 ✓ 50924 *Eupatorium sexangulare* (Klatt) Robinson
 50988 *Mikania* (§ *Thyrsig.*)
 51000 *Eupatorium Thielianum* Klatt

51134	Mikania		
51135	"	(§ Thyrsig.)	
51136	"	" "	
51145	"	" "	
✓ 51153	Eupatorium	(§ Eximb.) (=? E. Aschenbornianum Schauer)	
51157	"	Thielianum Klatt (=? Ophryosporus sp.)	
51267	Mikania	(§ Thyrsig.)	
✓ 51418	Eupatorium	anisochromum Klatt	U.S.
✓ 51475	"	eximium Robinson	
✓ 51862	"	sideritidis Benth.	
✓ 51881	"	anisochromum Klatt	
✓ 51933	"	hygrohylaenum Robinson	(U.S., phot. & fragm. Gr.)
✓ 52011	"	Pittieri Klatt?	
✓ 52111	"	eximium Robinson	

- 52694 *Tillandsia bulbosa* Hook.
 52732 " *festucoides* Brongn.
 52800 *Mikania leiostachya* Benth.
 52955 *Eupatorium odoratum* L.
 52978 *Tillandsia*?
 53193 " *festucoides* Brongn.
 53275 *Mikania cordifolia* (L. f.) Willd.
 53654 " *sp.*
 53906 *Lagasca mollis* Cav.
 54339 *Mikania guaco* H. & B.
 54343 *Tillandsia bulbosa* Hook.
 54352 " *sp.*
 54518 *Mikania guaco* H. & B.
 54582 *Tillandsia festucoides* Brongn.
 54608 *Catopsis* *sp.*
 54674 " *sp.*
 54730 *Mikania leiostachya* Benth.
 54769 " *guaco* H. & B.
 54782 " *Houstoniana* (L.) Robinson
 54811 *Tillandsia monadelphæ* Bak.
 55005 *Ageratum conyzoides* L.
 55020 *Eupatorium odoratum* L.
 55039 *Verbesina myriocephala* Sch.-Bip.
 55254 *Mikania Houstoniana* (L.) Robinson
 55270 " *sp.*
 55302 *Tillandsia festucoides* Brongn.
 55434 " " "
 55436 " *filifolia* Cham. & Schlecht.
 55726 " *bulbosa* Hook.
 55848 *Eupatorium daleoides* (DC.) Hensl.
 55874 " *collinum* DC.
 55875 " *laevigatum* Lam.
 55892 " *pycnocephalum* Less.
 55922 " *daleoides* (DC.) Hensl.
 55988 *Brickellia pacayensis* Coult.
 56007 *Eupatorium Sinclairi* Benth.
 56033 " *griseum* Coult.
 56049 " *amydalinum* Lam.
 56058 " *sp.*
 56070 *Tillandsia usneoides* L.
 56087 *Verbesina turbacensis* HBK.
 56178 *Tillandsia caespitosa* Cham. & Schlecht.
 56249 *Eupatorium pycnocephalum* Less.
 56251 *Brickellia oliganthes* (Less.) Gray
 56334 *Senecio* *sp.*
 56354 *Eupatorium*, n. sp.?
 56356 *Baccharis* *sp.*
 56392 *Mikania cordifolia* (L. f.) Willd.
 56441 *Eupatorium Oerstedianum* Benth.
 56442 *Stevia rhombifolia* HBK., v. *stephanocome* Sch.-Bip.
 56471 *Eupatorium sideritidis* Benth.
 56501 *Brickellia pacayensis* Coult.
 56502 " *paniculata* (Mill.) Robinson
 56579 *Eupatorium morifolium* Mill.
 56785 " *araliaefolium* Less.

with Standley
 2.19.1928
 P. C. Standley